

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. MASIMO.7CP1C5	APPLICATION NO. Unknown
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <small>(USE SEVERAL SHEETS IF NECESSARY)</small>		APPLICANT M. Diab et al.				
		FILING DATE Herewith			GROUP Unknown	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>h</i>		4 8 0 0 4 9 5	1/24/89	Smith			
		4 8 2 4 2 4 2	4/25/89	Frick et al.			
		4 8 6 3 2 6 5	9/5/89	Flower et al.			
		4 8 6 7 5 7 1	9/19/89	Frick et al.			
		4 8 9 2 1 0 1	1/9/90	Cheung et al.			
		4 9 0 7 5 9 4	3/13/90	Muz			
		4 9 1 1 1 6 7	3/27/90	Corenman et al.			
		4 9 2 8 6 9 2	5/29/90	Goodman et al.			
		4 9 5 5 3 7 9	9/11/90	Hall			
<i>h</i>		5 0 5 7 6 9 5	10/15/91	Hirao et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

<i>h</i>	1.	Rabiner, Lawrence et al. <u>Theory and Application of Digital Signal Processing</u> , p. 260, 1975.
<i>h</i>	2.	Tremper, Kevin et al., <u>Advances in Oxygen Monitoring</u> , pp. 137-153, 1987.
<i>h</i>	3.	Harris, Fred et al., "Digital Signal Processing with Efficient Polyphase
		Recursive All-Pass Filters", Presented at International Conference on Signal Processing, Florence, Italy, Sept. 4-6, 1991, 6 pages.
<i>h</i>	4.	Haykin, Simon, <u>Adaptive Filter Theory</u> , Prentice Hall, Englewood Cliffs, NJ, 1991.
<i>h</i>	5.	Widrow, Bernard, <u>Adaptive Signal Processing</u> , Prentice Hall, Englewood Cliffs, NJ 1985.

EXAMINER	<i>h</i>	DATE CONSIDERED
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\*EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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		(USE SEVERAL SHEETS IF NECESSARY)				M. Diab et al.		
						FILING DATE	GROUP	
						Herewith	Unknown	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5 2 7 3 0 3 6	12/28/93	Kronberg et al.			
		3 6 4 7 2 9 9	3/7/72	Lavallee			
		3 7 0 4 7 0 6	12/5/72	Herczfeld et al.			
		4 0 6 3 5 5 1	12/20/77	Sweeney			
		4 0 8 6 9 1 5	5/2/78	Kofsky et al.			
		4 0 9 5 1 1 7	6/13/78	Nagy			
		4 4 0 7 2 9 0	10/4/83	Wilber			
		4 5 3 7 2 0 0	8/27/85	Widrow			
		4 6 4 9 5 0 5	3/10/87	Zinser, Jr. et al.			
		4 7 7 3 4 2 2	9/27/88	Isaacson et al.			

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							YES

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	6.	Brown, David P., "Evaluation of Pulse Oximeters using Theoretical Models and Experimental Studies", Master's thesis, University of Washington, 11/25/87, pp. 1-142.					
	7.	Cohen, Arnon, "Volume I" Time and Frequency Domains Analysis", Biomedical Signal Processing, CRC Press, Inc., Boca Raton, Florida, pp. 152-159.					
	8.	Severinghaus, J.W., "Pulse Oximetry Uses and Limitations", pp. 1-4, ASA Convention, New Orleans, 1989.					
	9.	Mook, G.A., et al., "Spectrophotometric determination of Oxygen saturation of blood independent of the presence of indocyanine green", <u>Cardiovascular Research</u> , Vol. 13, pp. 233-237, 1979.					

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DATE CONSIDERED

9/30/03

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		(USE SEVERAL SHEETS IF NECESSARY)						Diab et al.				
								FILING DATE		GROUP		
								Herewith		Unknown		
U.S. PATENT DOCUMENTS												
EXAMINER INITIAL		DOCUMENT NUMBER				DATE	NAME			CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>E</i>		4	7	9	9	4	9	3	1/24/89	DuFault		
		4	8	4	8	9	0	1	7/18/89	Hood, Jr.		
		4	8	6	0	7	5	9	8/29/89	Kahn et al.		
		4	8	6	9	2	5	3	9/26/89	Craig, Jr. et al.		
		4	8	6	9	2	5	4	9/26/89	Stone et al.		
		4	8	8	3	3	5	3	11/28/89	Hausman		
		4	9	2	7	2	6	4	5/22/90	Shiga et al.		
		4	9	4	8	2	4	8	8/14/90	Lehman		
		4	9	5	6	8	6	7	9/11/90	Zurek et al.		
<i>E</i>		5	4	5	8	1	2	8	10/17/95	Pulanyi et al.		
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												YES
												NO
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)												
<i>E</i>	10.	Neuman, Michael R., "Pulse Oximetry: Physical Principles, Technical Realization and Present Limitations", <u>Continuous Transcutaneous Monitoring</u> , Plenum Press, New York, 1987, pp. 135-144.										
	11.	Mook, G.A., et al., "Wavelength dependency of the spectrophotometric determination of blood oxygen saturation", <u>Clinical Chemistry Acta</u> , Vol. 26, pp. 170-173, 1969.										
<i>E</i>	12.	Klimasauskas, Casey, "Neural Nets and Noise Filtering", <u>Dr. Dobb's Journal</u> , January 1989, pg. 32.										
<i>E</i>	13.	Melnikof, S. "Neural Networks for Signal Processing: A Case Study", <u>Dr. Dobbs Journal</u> , January 1989. pg.36-37										
EXAMINER		<i>E</i>				DATE CONSIDERED						
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EXAMINER INITIAL		DOCUMENT NUMBER				DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4	7	2	3	2	9	4	02/02/88	Taguchi		
		4	8	1	9	7	5	2	04/11/89	Zelin		
		4	9	6	0	1	2	6	10/02/90	Conlon et al.		
		5	2	4	6	0	0	2	09/21/93	Prosser		
		5	6	6	2	1	0	5	09/02/97	Tien		
FOREIGN PATENT DOCUMENTS												
		DOCUMENT NUMBER				DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION	
	S U	1	6	7	4	7	9	8	9/91	Abstract from Database WPI,	Derwent	Publications
	9 2 /	1	5	9	5	5			17/09/92	PCT		
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)												
	14.	Jingzheng, Ouyang et al., "Digital Processing of High-Resolution Electrocardiograms--Detection of His-Purkinje Activity from the Body Surface", <u>Biomedizinische Technik</u> , 33, 1 October 1988, No.10, Berlin, W. Germany, pp. 224-230.										
	15.	Chen, Jiande, et al., "Adaptive System for Processing of Electrogastric Signals", <u>Images of the Twenty-First Century</u> , Seattle, WA, vol. 11, Nov. 9-12, 1989. pp. 698-699.										
	16.	Varanini, M. et al., "A Two Channel Adaptive Filtering Approach for Recognition of the QRS Morphology", <u>Proceedings of the Computers in Cardiology Meeting</u> , Venice, Sept. 23-26, 1991, Institute of Electrical and Electronics Engineers, pp. 141-144.										
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